

# INTERNATIONAL SEARCH REPORT

Internati Application No  
PCT/IB 03/04134

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01L23/495

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

PAJ, WPI Data, EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 19, 5 June 2001 (2001-06-05) -& JP 2001 035868 A (NEC CORP), 9 February 2001 (2001-02-09) abstract	1-3, 6-9
Y	-----	4, 5, 10
Y	PATENT ABSTRACTS OF JAPAN vol. 0174, no. 31 (E-1411), 10 August 1993 (1993-08-10) -& JP 05 090464 A (SANYO ELECTRIC CO LTD), 9 April 1993 (1993-04-09) the whole document	4, 5, 10
A	----- US 6 249 433 B1 (JAO JUI-MENG ET AL) 19 June 2001 (2001-06-19) the whole document ----- -/-	1, 3, 8, 9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

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\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

8 January 2004

Date of mailing of the international search report

22/01/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Zeisler, P

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 14, 5 March 2001 (2001-03-05) -& JP 2000 307017 A (HITACHI LTD), 2 November 2000 (2000-11-02) the whole document	6,7
P,A	-& US 6 479 888 B1 (HIRASHIMA TOSHINORI ET AL) 12 November 2002 (2002-11-12) the whole document -----	6,7

# INTERNATIONAL SEARCH REPORT

information on patent family members

Internat

Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2001035868 A	09-02-2001	NONE	
JP 05090464 8 A		NONE	
US 6249433 B1	19-06-2001	TW 510158 B	11-11-2002
JP 2000307017 A	02-11-2000	US 2003038360 A1	27-02-2003
		US 6479888 B1	12-11-2002
		WO 0049656 A1	24-08-2000
		US 6573119 B1	03-06-2003